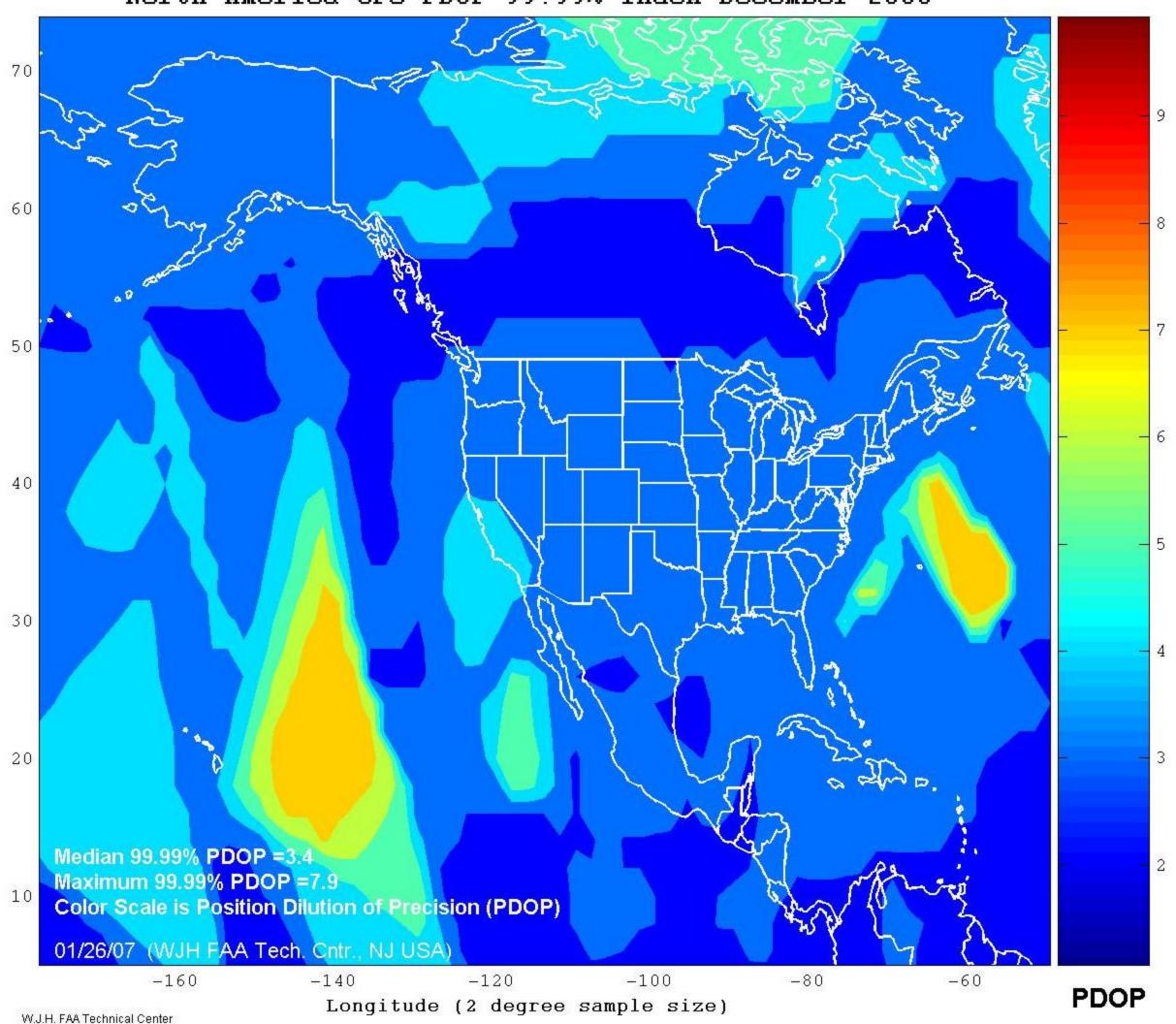
## Civil Report Card On GPS Performance December 2006

Operational Performance Parameter	CY 2005	Nov 2006	Dec 2006	Long term	Short term
Availability Parameters					
Average Number of satellites usable	28.93	28.15	28.82	•	<b>^</b>
Average number of satellites usable in primary slots	23.80 (99.17%)	23.16 (96.49%)	23.82 (99.26%)	<b>→</b>	<b>1</b>
Average availability of 6 satellites in view	TBD%	99.99%	99.99%		<b>→</b>
99.99% Horizontal DOP					
Area Median	2.1	1.9	1.6	<u>^</u>	<b>^</b>
Worst Site	4.1	5.2	3.7	<b>^</b>	<b>^</b>
99.99% Vertical DOP					
Area Median	3.8	3.6	3.0	<b>^</b>	<u> </u>
Worst Site	5.6	13.2	7.2	<b>V</b>	<u> </u>
99.99% Position DOP (PDOP)					
Area Median	4.1	4.0	3.4	1	1
Worst Site	6.0	14.1	7.9	<b>Ψ</b>	<u> </u>
Accuracy Parameters  RMS Single Frequency User Range Error					
Constellation Median	1.77 *	1.94	1.94	<b>→</b>	<b>→</b>
Worst Satellite	2.22 *	2.78	2.68	T.	<b>→</b>
95% Horizontal Error					
Area Median	3.44	2.70	2.46	<b>^</b>	<b>^</b>
Worst Site	6.04	4.87	4.28	<b>1</b>	<b>^</b>
Availability (% <4.5m (historical 3- sigma))	99.67%	99.21%	99.74%	<b>→</b>	<b>^</b>
95% Vertical Error					
Area Median	5.83	5.03	5.24	<b>^</b>	<b>→</b>
Worst Site	7.43	6.21	7.08	<b>^</b>	<b>V</b>
Availability (% < 9m (historical 3- sigma))	99.93%	99.85%	99.80%	•	<b>→</b>

Key: ↑ improving ♥ worsening → no significant change \* CY 2006 (1 Jan – 31 August 2006) Long Term is current month vs. prior 24 months, Short Term is current month vs. prior month

Compiled from WAAS network as requested by the Defense Science Board

North America GPS PDOP 99.99% Index December 2006



PDOP Trends June through December 2006

